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INTERNATIONAL SEARCH REPORT

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(PCT Article 18 and Rules 43 and 44)

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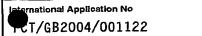
Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220 ell as, where applicable, item 5 below.
IP/P7255/WOD	ACTION as w International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
International application No.		
PCT/GB2004/001122	17/03/2004	22/03/2003
Applicant		
QINETIQ LIMITED		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching A ansmitted to the International Bureau.	uthority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
	a copy of each prior art document cited in	his report.
Basis of the report a. With regard to the language, the language in which it was filed, un	international search was carried out on the less otherwise indicated under this item.	basis of the international application in the
The international this Authority (Ru		nslation of the international application furnished to
b. With regard to any nucle	otide and/or amino acid sequence disclo	sed in the international application, see Box No. I.
2. Certain claims were fou	ınd unsearchable (See Box II).	
3. Unity of invention is lac	cking (see Box III).	
4. With regard to the title,		
I 1	ubmitted by the applicant.	
	shed by this Authority to read as follows:	TOLEVED DEUTCE
OPTICAL WAVELENGTH DI	VISION MULTIPLEXER/ DEMULT	IPHERER BEVICE
}		
5. With regard to the abstract,	submitted by the applicant	
the tout has been estable	submitted by the applicant. ished, according to Bule 38.2(b), by this Au	thority as it appears in Box No. IV. The applicant
the text has been estable may, within one month f	rom the date of mailing of this International	search report, submit comments to this Authority.
6. With regards to the drawings,	published with the abstract is Sigure No.	1.3
a. the figure of the drawings to be	published with the abstract is Figure No	<u></u>
	his Authority, because the applicant failed t	o suggest a figure.
	his Authority, because this figure better cha	
· ·	be published with the abstract.	

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				01, 402001, 602222
A. CLASSIF IPC 7	GO2B6/293 GO2B6/12	GO2B6/32	G02B6/35	
According to	International Patent Classification (IPC) or to	both national classification	n and IPC	
	SEARCHED			
Minimum do IPC 7	cumentation searched (classification system G02B	followed by classification a	symbols)	
Documental	ion searched other than minimum documenta	tion to the extent that suc	n documents are included	d in the fields searched
Electronic da	ata base consulted during the international se	earch (name of data base	and, where practical, sea	arch terms used)
EPO-In	ternal, PAJ, INSPEC			
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where	e appropriate, of the releva	ant passages	Relevant to claim No.
X	MIURA T ET AL: "MODE OF HOLLOW OPTICAL WAY INTEGRATED CIRCUITS" JAPANESE JOURNAL OF A PUBLICATION OFFICE JA	/EGUIDE FOR PH APPLIED PHYSIC	OTONIC S,	1,5-15, 17-19, 22-29
	APPLIED PHYSICS. TOKY vol. 41, no. 7B, PART July 2002 (2002-07), XP001163079 ISSN: 0021-4922 page 4785; table 1	/O, JP, Г 1,		,
Υ	page 4787 page 4789			2-4,30
Y	GB 2 189 621 A (NIPPO 28 October 1987 (198 figures 2,4		CO LTD)	2-4,30
		-/	/	
X Furt	her documents are listed in the continuation	of box C.	Y Patent family men	mbers are listed in annex.
"A" docum consi "E" earlier filing that docum which citatic "O" docum other "P" docum	ategories of cited documents: ent defining the general state of the art which dered to be of particular relevance document but published on or after the Intern date ent which may throw doubts on priority claim is cited to establish the publication date of an on or other special reason (as specified) nent referring to an oral disclosure, use, exhit means tent published prior to the International filing of than the priority date claimed	n is not national o) (s) or nother vilion or	or priority date and n cited to understand it invention K* document of particular cannot be considered involve an inventive: Y* document of particular cannot be considered document is combine	thed after the international filing date to in conflict with the application but the principle or theory underlying the relevance; the claimed invention d novel or cannot be considered to step when the document is taken alone relevance; the claimed invention d to involve an inventive step when the ed with one or more other such documation being obvious to a person skilled the same patent family
	actual completion of the international search			International search report
]	16 June 2004		05/07/20	U4
	mailing address of the ISA		Authorized officer	

Tatemational Application No

	TCT/GB2004/001122
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Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
TAKAHASHI H ET AL: "TRANSMISSION CHARACTERISTICS OF ARRAYED WAVEGUIDE N X N WAVELENGTH MULTIPLEXER" JOURNAL OF LIGHTWAVE TECHNOLOGY, IEEE. NEW YORK, US, vol. 13, no. 3, 1 March 1995 (1995-03-01), pages 447-455, XP000509310 ISSN: 0733-8724 page 447; figure 10	24-27
JENKINS R M ET AL: "An Integrated Optic Approach to 10/spl mu/m LIDAR" CONFERENCE ON LASERS AND ELECTRO-OPTICS IN EUROPE, 14 September 1998 (1998-09-14), pages 389-389, XP010617541 Glasgow page 389	30
EP 0 043 475 A (ZEISS CARL FA) 13 January 1982 (1982-01-13) page 1, line 19 -page 3, line 20; figures 1-4	1,10-20, 22
page 4, line 28 - line 32 page 5, line 5 - line 27; figure 5	21
US 2002/191907 A1 (IDO TATEMI ET AL) 19 December 2002 (2002-12-19) paragraph '0009! paragraph '0020!	21
US 5 428 698 A (JENKINS RICHARD M ET AL) 27 June 1995 (1995-06-27) column 13, line 52 -column 14, line 31; figures 9,10	21
US 6 219 470 B1 (TU XIANG ZHENG) 17 April 2001 (2001-04-17)	1-3,6-8, 10-19, 23-26
column 2, line 34 - line 40; figure 3 column 3, line 45 -column 4, line 3 column 6, line 34 - line 36 column 4, line 35 - line 39; figure 5	5,9, 27-29
US 2003/035613 A1 (HUBER AVIGDOR ET AL) 20 February 2003 (2003-02-20) paragraph '0011! paragraph '0010! paragraph '0019! paragraph '0029! - paragraph '0033! paragraph '0040!; figure 6 paragraph '0042! - paragraph '0046!	5,9, 27-29
	CHARACTERISTICS OF ARRAYED WAVEGUIDE N X N WAVELENGTH MULTIPLEXER" JOURNAL OF LIGHTWAVE TECHNOLOGY, IEEE. NEW YORK, US, vol. 13, no. 3, 1 March 1995 (1995-03-01), pages 447-455, XPO00509310 ISSN: 0733-8724 page 447; figure 10 JENKINS R M ET AL: "An Integrated Optic Approach to 10/spl mu/m LIDAR" CONFERENCE ON LASERS AND ELECTRO-OPTICS IN EUROPE, 14 September 1998 (1998-09-14), pages 389-389, XPO10617541 Glasgow page 389 EP 0 043 475 A (ZEISS CARL FA) 13 January 1982 (1982-01-13) page 1, line 19 -page 3, line 20; figures 1-4 page 4, line 28 - line 32 page 5, line 5 - line 27; figure 5 US 2002/191907 A1 (IDO TATEMI ET AL) 19 December 2002 (2002-12-19) paragraph '0009! paragraph '0009! US 5 428 698 A (JENKINS RICHARD M ET AL) 27 June 1995 (1995-06-27) column 13, line 52 -column 14, line 31; figures 9,10 US 6 219 470 B1 (TU XIANG ZHENG) 17 April 2001 (2001-04-17) column 2, line 34 - line 40; figure 3 column 3, line 45 -column 4, line 3 column 6, line 34 - line 36 column 4, line 35 - line 39; figure 5 US 2003/035613 A1 (HUBER AVIGDOR ET AL) 20 February 2003 (2003-02-20) paragraph '0019! paragraph '0019! paragraph '0019! paragraph '0019! paragraph '0019! paragraph '0040!; figure 6 paragraph '0042! - paragraph '0046!



		TCT/GB2004/001122		
.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.		
P, X	WO 03/065091 A (JENKINS RICHARD MICHAEL; MCNIE MARK EDWARD (GB); QINETIQ LTD (GB)) 7 August 2003 (2003-08-07) page 2, line 19 -page 3, line 30 page 6, line 4 -page 7, line 28 page 10, line 14 - line 18 page 12, line 25 -page 13, line 2 page 19, line 1 -page 20, line 24; figure 3 page 24, line 24 -page 25, line 29; figure 7 page 26, line 20 -page 27, line 23 page 30, line 9 - line 20 page 36, line 10 - line 11	1-24,26, 30		

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 31,32

Present claims 31-32, which rely on references to drawings of the present application, are not allowable under Rule 6.2.a PCT. It is not clear which elements of the drawings have to be considered as technical features. Such a lack of clarity renders a meaningful search of the claims 31-32 impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear, namely claims 1-30.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

International application No. PCT/GB2004/001122

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 31,32 because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Information on patent family members

T/GB2004/001122

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
GB 2189621	A	28-10-1987	JP JP JP DE FR US	8023613 B 62206502 A 63029709 A 3707290 A1 2595477 A1 4790615 A	06-03-1996 11-09-1987 08-02-1988 10-09-1987 11-09-1987 13-12-1988
EP 0043475	Α	13-01-1982	DE EP JP	3024104 A1 0043475 A1 57030807 A	21-01-1982 13-01-1982 19-02-1982
US 2002191907	A1	19-12-2002	JP US	2002006155 A 2001053262 A1	09-01-2002 20-12-2001
US 5428698	A	27-06-1995	CA DE DE EP WO JP JP JP	2096421 A1 69126887 D1 69126887 T2 0563065 A1 9211551 A1 6503898 T 3361520 B2 2003035918 A	21-06-1992 21-08-1997 08-01-1998 06-10-1993 09-07-1992 28-04-1994 07-01-2003 07-02-2003
US 6219470	B1	17-04-2001	NONE		
US 2003035613	A1	20-02-2003	NONE		
			WO	03065091 A2	07-08-2003